Author Index of Volume 70

Alcántara, A. R., 381
Andreev, A., 259
Andy Hor, T. S., 247
An-Kong Hsieh, 247
Antropiusová, H., 9
Aragno, A., 29
Arzoumanian, H., 269
Asakura, T., 151

Barbier, J., 65, 99
Basini, L., 29
Bassoli, A., 175
Bodnar, Z., 53
Boitiaux, J. P., 65
Bonchio, M., 159
Bordiga, S., 43
Brun, P., L1
Buck, T., 259

Cenini, S., 175
Conte, V., 159
Corma, A., 369
Crocker, M., 209
Crotti, C., 175

Dao-Sen Jin, 391
Davis, M. E., 363
del Pino, C., 369
Demartin, F., 175
Di Fria, F., 159
Dimitrova, R., 111
Domènech, X., 343

Escalona Platero, E., 43

Feng Liangbo, 351
Floriani, C., 197

Garcia, J., 343
Gates, B. C., 29
Gennaro, A., 197
Guanti, G., 381
Guczi, L., 85

Hanson, B. E., 363
Herold, R. H. M., 209
Hoang, L. C., 65, 99
Hoffer, T., 85

Iglesias, M., 369
Ikeda, K., 151
Ipin Guo, 363
Isse, A. A., 197

Jin Zhensheng, 351

Kanazirev, V., 111
Kazanski, V. B., 111, 189
Kazusaka, A., 165
Keller, A., 143
Khodakov, A. Yu., 111
Koerts, T., 119
Komiyama, M., 399
Kustov, L. M., 111

Liang-Nian Ji, 247
Li Qinglin, 351

Mach, K., 9
Mallat, T., 53
Máthé, T., L5
Menezo, J. C., 65, 99
Milis, A., 343
Min Liu, 247
Modena, G., 159
Montassier, C., 65, 99
Morozumi, T., 399
Moukolo, J., 65

Naja, J., 65
Nemoto, N., 151
Nomura, M., 165

Ohkatsu, Y., 151
Otero Arean, C., 43

Pankov, A. A., 189
Patrini, R., 29
Patzer II, J. F., 217, 231
Petró, J., L5, 53
Pinna, F., 269
Pitha, J., 399
Poláček, J., 9
Pressey, R., 243
Price, G. L., 111

Ratnasamy, P., 335
Renaud, C., 99
Rindone, B., 175

Sánchez, F., 369
Schultz-Ekloff, G., 259
Senchenya, I. N., 189
Shi Mengyang, 351
Shukla, R. S., 129
Sinisterra, J. V., 381
Sivasanker, S., 335
Strukul, G., 269
Sudhakar Reddy, J., 335

Takamiya, N., 151
Taqui Khan, M. M., 129
Tarnai, T., L5
Tenaglia, A., L1
Thea, S., 381
Tobita, K., 151
Toth, I., 363
Tungler, A., L5

Ueno, Y., 151
Uetsuka, H., 399
Ukisu, Y., 165

van Santen, R. A., 119
Vianello, E., 197

Wang Chuanping, 351
Williams, A., 381
Witko, M., 277
Wöhrle, D., 259
Wolfson, Jr., S. K., 217, 231

Yao, S. J., 217, 231
Yuan-Qi Yin, 391

Zafra, A., 343
Zecchina, A., 43
Zennaro, R., 269
Zheng-Rong Lu, 391

Elsevier Sequoia, Lausanne

Subject Index of Volume 70

Acetic acid
oxidation of indoleacetic acid by 1,10-phenanthroline–Mn complexes, 243
Acid catalysis
homogeneous; nature of hydrated aliphatic carbenium ions and their role in, 189
Active sites
IR study of, formed by H_2 treatment of Ga/HZSM-5 catalysts, 111
Alcohols
aliphatic; relationship between molecular structure of, and their behaviour in photocatalytic dehydrogenation on Pt/CdS, 351
aqueous polyol conversions on Ru and on S-modified Ru, 99
polyol conversions into furanic derivatives on bimetallic catalysts: Cu–Ru, Cu–Pt and Ru–Cu, 65
promoter effect of niobia on Pt/Al_2O_3 catalysts: methanol–deuterium exchange on samples containing 5% Nb_2O_5, 85
secondary; possible molecular pathway for catalytic oxidation of, to ketones with H_2O_2 using Pt(II) complexes as catalysts, 269
selective synthesis using cyclodextrins as catalysts: cyclodextrin modification for *para*-selective hydroxymethylation and hydroxyethylation of phenol, 399
Aldehydes
reductive hydrolysis of nitriles to, by precipitated Ni on Fe or Al, 53
Alkanes
metalloporphyrin-catalysed hydroxylation of cyclohexane with molecular oxygen, 247
selective oxidation of n-hexane over titanium silicate molecular sieve with MEL structure, 335
Alkenes, Olefins
carbomethoxylation of ethylene catalysed by Pd(II) complexes intercalated in smectite clay, 209
cooligomerization of 1,3-dienes catalysed by Ni(0): influence of nature of organoaluminium reducing agent, L1
functionalized; metathesis of, by dinitrosylmolybdenum catalyst, 143
hydroformylation of 1-hexene with $Pt(P(m\text{-}C_6H_4SO_3Na)_3)_2Cl_2$ and its tin chloride analogue on controlled-pore glass, 363
oxidation of alkene with t-butyl hydroperoxide catalysed by Cu(II) complexes of tris(2-benzimidazolylmethyl)amine: model complexes of blue Cu proteins, 391
Rh complexes, new, anchored on silica and modified Y-zeolite as efficient catalysts for hydrogenation of, 369
Ru(III) analogue of model peroxidase system: Ru(III)–EDTA–ascorbate–H_2O_2 in catalytic epoxidation of unsaturated hydrocarbons, 129
Ti-catalysed cyclotrimerization of butadiene: formation of catalytic bis(di-μ-chloroaluminate)Ti(II) complexes in $TiCl_4$–Et_xAlCl_{3-x} ($x = 1$–2) systems, 9
Aluminium
cooligomerization of 1,3-dienes catalysed by Ni(0): influence of nature of organoaluminium reducing agent, L1
promoter effect of niobia on Pt/Al_2O_3 catalysts: methanol–deuterium exchange on samples containing 5% Nb_2O_5, 85
reductive hydrolysis of nitriles to aldehydes by precipitated Ni on Fe or Al, 53
Ti-catalysed cyclotrimerization of butadiene: formation of catalytic bis(di-μ-chloroaluminate)Ti(II) complexes in $TiCl_4$–Et_xAlCl_{3-x} ($x = 1$–2) systems, 9
Amine
oxidation of alkene with t-butyl hydroperoxide catalysed by Cu(II) complexes of tris(2-benzimidazolylmethyl)amine: model complexes of blue Cu proteins, 391

Elsevier Sequoia, Lausanne

Aromatic compounds
oxidation of alkene with t-butyl hydroperoxide catalysed by Cu(II) complexes of tris(2-benzimidazolylmethyl)amine: model complexes of blue Cu proteins, 391
oxidation of indoleacetic acid by 1,10-phenanthroline–Mn complexes, 243
oxygenation of 3-methylindole catalysed by Co(II) phthalocyanine attached to polyorganosiloxane; mechanism for addition of oxygen to 3-methylindole, 151
preparation and catalysis of Cu–pyridine complex encapsulated into zeolite supercage, 165
selective synthesis of cyclodextrins as catalysts: cyclodextrin modification for *para*-selective hydroxymethylation and hydroxyethylation of phenol, 399
synthesis of carbazole by $Ru_3(CO)_{12}$-catalysed reductive carbonylation of 2-nitrobiphenyl: crystal and molecular structure of $Ru_3(\mu_3\text{-}NC_6H_4\text{-}o\text{-}C_6H_5)_2(CO)_9$, 175
Ascorbate
Ru(III) analogue of model peroxidase system: Ru(III)–EDTA–ascorbate–H_2O_2 in catalytic epoxidation of unsaturated hydrocarbons, 129

t-Butyl hydroperoxide
oxidation of alkene with, catalysed by Cu(II) complexes of tris(2-benzimidazolylmethyl)amine: model complexes of blue Cu proteins, 391

Cadmium
relationship between molecular structure of aliphatic alcohols and their behaviour in photocatalytic dehydrogenation on Pt/CdS, 351
Carbenium ions
hydrated aliphatic; nature of, and their role in homogeneous acid catalysis, 189
Carbomethoxylation
of ethylene catalysed by Pd(II) complexes intercalated in smectite clay, 209
Carbonylation
$Ru_3(CO)_{12}$-catalysed reductive, of 2-nitrobiphenyl: synthesis of carbazole by; crystal and molecular structure of $Ru_3(\mu_3\text{-}NC_6H_4\text{-}o\text{-}C_6H_5)_2(CO)_9$, 175
CH_X species
surface: reaction path for recombination of, 119
Clusters
Rh carbonyl, in NaY zeolite made basic by treatment with sodium azide: characterization by IR spectroscopy, 29
CO_2
electrochemical reduction of, catalysed by [Co^I(salophen)Li], 197
Cobalt
electrochemical reduction of CO_2 catalysed by [Co^I(salophen)Li], 197
oxygenation of 3-methylindole catalysed by Co(II) phthalocyanine attached to polyorganosiloxane; mechanism for addition of oxygen to 3-methylindole, 151
structure and mercaptan oxidation activity of Co(II) phthalocyanines covalently bonded to silica of low surface area, 259
Cooligomerization
of 1,3-dienes catalysed by Ni(0): influence of nature of organoaluminium reducing agent, L1
Copper
oxidation of alkene with t-butyl hydroperoxide catalysed by Cu(II) complexes of tris(2-benzimidazolylmethyl)amine: model complexes of blue Cu proteins, 391
polyol conversions into furanic derivatives on bimetallic catalysts: Cu–Ru, Cu–Pt and Ru–Cu, 65
preparation and catalysis of Cu–pyridine complex encapsulated into zeolite supercage, 165
Crystal structure
and molecular structure of $Ru_3(\mu_3\text{-}NC_6H_4\text{-}o\text{-}C_6H_5)_2(CO)_9$: synthesis of carbazole by $Ru_3(CO)_{12}$-catalysed reductive carbonylation of 2-nitrobiphenyl, 175
Cyclodextrins
selective synthesis using, as catalysts: cyclodextrin modification for *para*-selective hydroxymethylation and hydroxyethylation of phenol, 399
Cyclotrimerization
Ti-catalysed, of butadiene: formation of catalytic bis(di-μ-chloroaluminate)Ti-

(II) complexes in $TiCl_4$–Et_xAlCl_{3-x} ($x = 1$–2) systems, 9

Dehydrogenation
photocatalytic; relationship between molecular structure of aliphatic alcohols and their behaviour in, on Pt/CdS, 351

Electrochemical reduction
of CO_2 catalysed by [Co^I(salophen)Li], 197
Enzymes
microgels as soluble supports for enzyme active against polymeric substrates: micrococcal nuclease, 381
Ru(III) analogue of model peroxidase system: Ru(III)–EDTA–ascorbate–H_2O_2 in catalytic epoxidation of unsaturated hydrocarbons, 129
Epoxidation
Ru(III) analogue of model peroxidase system: Ru(III)–EDTA–ascorbate–H_2O_2 in catalytic epoxidation of unsaturated hydrocarbons, 129
Epoxides
oxidative cleavage of, by Mo(VI) peroxo complexes, 159
Ethyl pyruvate
enantioselective hydrogenation of, L5

Furanic derivatives
polyol conversions into, on bimetallic catalysts: Cu–Ru, Cu–Pt and Ru–Cu, 65

Gallium
IR study of active sites formed by H_2 treatment of Ga/HZSM-5 catalysts, 111
Glass
controlled-pore; hydroformylation of 1-hexene with Pt(P(*m*-$C_6H_4SO_3Na)_3)_2Cl_2$ and its tin chloride analogue on, 363

Hydrated aliphatic carbenium ions
nature of, and their role in homogeneous acid catalysis, 189
Hydrocarbons
oxidation of, on transition metal oxide catalysis – quantum chemical studies, 277
see Alkanes, Alkenes
Hydroformylation
of 1-hexene with Pt(P(*m*-$C_6H_4SO_3Na)_3)_2Cl_2$ and its tin chloride analogue on controlled-pore glass, 363
Hydrogen
IR study of active sites formed by H_2 treatment of Ga/HZSM-5 catalysts, 111
promoter effect of niobia on Pt/Al_2O_3 catalysts: methanol–deuterium exchange on samples containing 5% Nb_2O_5, 85
Hydrogenation
enantioselective, of ethyl pyruvate, L5
Rh complexes, new, anchored on silica and modified Y-zeolite as efficient catalysts for, of olefins, 369
Hydrogen peroxide
possible molecular pathway for catalytic oxidation of secondary alcohols to ketones with, using Pt(II) complexes as catalysts, 269
Ru(III) analogue of model peroxidase system: Ru(III)–EDTA–ascorbate–H_2O_2 in catalytic epoxidation of unsaturated hydrocarbons, 129
Hydrolysis
reductive, of nitriles to aldehydes by precipitated Ni on Fe or Al, 53
Hydroxylation
metalloporphyrin-catalysed, of cyclohexane with molecular oxygen, 247
Hydroxymethylation and hydroxyethylation
para-selective: cyclodextrin modification for, of phenol; selective synthesis using cyclodextrins as catalysts: 399

Intercalation
carbomethoxylation of ethylene catalysed by Pt(II) complexes intercalated in smectite clay, 209
Iron
reductive hydrolysis of nitriles to aldehydes by precipitated Ni on Fe or Al, 53

Ketones
possible molecular pathway for catalytic oxidation of secondary alcohols to, with H_2O_2 using Pt(II) complexes as catalysts, 269

Lithium
electrochemical reduction of CO_2 catalysed by [Co^I(salophen)Li], 197

Manganese
oxidation of indoleacetic acid by 1,10-phenanthroline–Mn complexes, 243
MEL structure
selective oxidation of n-hexane over titanium silicate molecular sieve with, 335
Metathesis
of functionalized alkenes by dinitrosylmolybdenum catalyst, 143
Micrococcal nuclease
microgels as soluble supports for enzyme active against polymeric substrates, 381
Microgels
as soluble supports for enzyme active against polymeric substrates: micrococcal nuclease, 381
Modern catalysis
Working Group XIII: report and conclusions, 1
Molecular structure
and crystal structure of $Ru_3(\mu_3\text{-}NC_6H_4\text{-}o\text{-}C_6H_5)_2(CO)_9$: synthesis of carbazole by $Ru_3(CO)_{12}$-catalysed reductive carbonylation of 2-nitrobiphenyl, 175
relationship between, of aliphatic alcohols and their behaviour in photocatalytic dehydrogenation on Pt/CdS, 351
Molybdenum
metathesis of functionalized alkenes by dinitrosylmolybdenum catalyst, 143
oxidative cleavage of epoxides by Mo(VI) peroxo complexes, 159

Nickel
cooligomerization of 1,3-dienes catalysed by Ni(0): influence of nature of organoaluminium reducing agent, L1
reductive hydrolysis of nitriles to aldehydes by precipitated Ni on Fe or Al, 53
Niobia
promoter effect of, on Pt/Al_2O_3 catalysts: methanol–deuterium exchange on samples containing 5% Nb_2O_5, 85
Nitriles
reductive hydrolysis of, to aldehydes by precipitated Ni on Fe or Al, 53
Nitrite
kinetics of catalytic oxidation of, over illuminated aqueous suspensions of TiO_2, 343

Olefins: see Alkenes
Oxidation
of alkene with t-butyl hydroperoxide catalysed by Cu(II) complexes of tris(2-benzimidazolylmethyl)amine: model complexes of blue Cu proteins, 391
catalytic, of nitrite over illuminated aqueous suspensions of TiO_2; kinetics of, 343
catalytic; possible molecular pathway for, of secondary alcohols to ketones with H_2O_2 using Pt(II) complexes as catalysts, 269
of hydrocarbons on transition metal oxide catalysis – quantum chemical studies, 277
of indoleacetic acid by 1,10-phenanthroline–Mn complexes, 243
mercaptan, activity and structure of Co(II) phthalocyanines covalently bonded to silica of low surface area, 259
selective, of n-hexane over titanium silicate molecular sieve with MEL structure, 335
urea: platinized-Ti electrodes for: concentric spiral coil geometry, 231
demonstration of efficacy, 217
Oxidative cleavage
of epoxides by Mo(VI) peroxo complexes, 159
Oxygen
metalloporphyrin-catalysed hydroxylation of cyclohexane with molecular oxygen, 247
oxygenation of 3-methylindole catalysed by Co(II) phthalocyanine attached to polyorganosiloxane; mechanism for addition of oxygen to 3-methylindole, 151
Oxygenation
of 3-methylindole catalysed by Co(II) phthalocyanine attached to polyorganosiloxane; mechanism for addition of oxygen to 3-methylindole, 151

Palladium
carbomethoxylation of ethylene catalysed by Pd(II) complexes intercalated in smectite clay, 209
Peroxo complexes
Mo(VI); oxidative cleavage of epoxides by, 159
Platinum
hydroformylation of 1-hexene with $Pt(P(m\text{-}C_6H_4SO_3Na)_3)_2Cl_2$ and its tin chloride analogue on controlled-pore glass, 363
platinized-Ti electrodes for urea oxidation:
concentric spiral coil geometry, 231
demonstration of efficacy, 217
polyol conversions into furanic derivatives on bimetallic catalysts: Cu–Ru, Cu–Pt and Ru–Cu, 65
possible molecular pathway for catalytic oxidation of secondary alcohols to ketones with H_2O_2 using Pt(II) complexes as catalysts, 269
promoter effect of niobia on Pt/Al_2O_3 catalysts: methanol–deuterium exchange on samples containing 5% Nb_2O_5, 85
relationship between molecular structure of aliphatic alcohols and their behaviour in photocatalytic dehydrogenation on Pt/CdS, 351
Porphyrins
metalloporphyrin-catalysed hydroxylation of cyclohexane with molecular oxygen, 247
Proteins
oxidation of alkene with t-butyl hydroperoxide catalysed by Cu(II) complexes of tris(2-benzimidazolylmethyl)amine: model complexes of blue Cu proteins, 391

Quantum chemical studies
oxidation of hydrocarbons on transition metal oxide catalysis, 277

Reduction
electrochemical, of CO_2 catalysed by [Co^I(salophen)Li], 197
Rhenium
FTIR study of interaction of $Re_2(CO)_{10}$ with Na-Y zeolite, 43
Rhodium
carbonyl clusters in NaY zeolite made basic by treatment with sodium azide: characterization by IR spectroscopy, 29
complexes, new, anchored on silica and modified Y-zeolite as efficient catalysts for hydrogenation of olefins, 369
Ruthenium
aqueous polyol conversions on Ru and on S-modified Ru, 99
polyol conversions into furanic derivatives on bimetallic catalysts: Cu–Ru, Cu–Pt and Ru–Cu, 65
Ru(III) analogue of model peroxidase system: Ru(III)–EDTS–ascorbate–H_2O_2 in catalytic epoxidation of unsaturated hydrocarbons, 129
synthesis of carbazole by $Ru_3(CO)_{12}$-catalysed reductive carbonylation of 2-nitrobiphenyl: crystal and molecular structure of $Ru_3(\mu_3\text{-}NC_6H_4\text{-}o\text{-}C_6H_5)_2(CO)_9$, 175

Silicon
oxygenation of 3-methylindole catalysed by Co(II) phthalocyanine attached to polyorganosiloxane; mechanism for addition of oxygen to 3-methylindole, 151
Rh complexes, new, anchored on silica and modified Y-zeolite as efficient catalysts for hydrogenation of olefins, 369
selective oxidation of n-hexane over titanium silicate molecular sieve with MEL structure, 335
structure and mercaptan oxidation activity of Co(II) phthalocyanines covalently bonded to silica of low surface area, 259
Smectite clay
carbomethoxylation of ethylene catalysed by Pd(II) complexes intercalated in, 209
Sodium
FTIR study of interaction of $Re_2(CO)_{10}$ with Na-Y zeolite, 43
hydroformylation of 1-hexene with $Pt(P(m\text{-}C_6H_4SO_3Na)_3)_2Cl_2$ and its tin chloride analogue on controlled-pore glass, 363
Rh carbonyl clusters in NaY zeolite made basic by treatment with sodium azide: characterization by IR spectroscopy, 29

Spectroscopy
FTIR study of interaction of $Re_2(CO)_{10}$ with Na-Y zeolite, 43
IR study of active sites formed by H_2 treatment of Ga/HZSM-5 catalysts, 111
Rh carbonyl clusters in NaY zeolite made basic by treatment with sodium azide: characterization by IR spectroscopy, 29
Spiral coil geometry
concentric: platinized-Ti electrodes for urea oxidation, 231
Sulphur
aqueous polyol conversions on Ru and on S-modified Ru, 99
hydroformylation of 1-hexene with $Pt(P(m\text{-}C_6H_4SO_3Na)_3)_2Cl_2$ and its tin chloride analogue on controlled-pore glass, 363
relationship between molecular structure of aliphatic alcohols and their behaviour in photocatalytic dehydrogenation on Pt/CdS, 351
structure and mercaptan oxidation activity of Co(II) phthalocyanines covalently bonded to silica of low surface area, 259
Surface
reaction path for recombination of surface CH_x species, 119
structure and mercaptan oxidation activity of Co(II) phthalocyanines covalently bonded to silica of low surface area, 259

Tin
hydroformylation of 1-hexene with $Pt(P(m\text{-}C_6H_4SO_3Na)_3)_2Cl_2$ and its tin chloride analogue on controlled-pore glass, 363
Titanium
-catalysed cyclotrimerization of butadiene: formation of catalytic bis(di-μ-chloroaluminate)Ti(II) complexes in $TiCl_4$–Et_xAlCl_{3-x} ($x = 1$–2) systems, 9
kinetics of catalytic oxidation of nitrite over illuminated aqueous suspensions of TiO_2, 343
platinized-Ti electrodes for urea oxidation:
concentric spiral coil geometry, 231
demonstration of efficacy, 217
selective oxidation of n-hexane over titanium silicate molecular sieve with MEL structure, 335
Transition metal oxide catalysis
oxidation of hydrocarbons on — quantum chemical studies, 277

Urea oxidation
platinized-Ti electrodes for:
concentric spiral coil geometry, 231
demonstration of efficacy, 217

Zeolites
FTIR study of interaction of $Re_2(CO)_{10}$ with Na-Y zeolite, 43
IR study of active sites formed by H_2 treatment of Ga/HZSM-5 catalysts, 111
preparation and catalysis of Cu–pyridine complex encapsulated into zeolite supercage, 165
Rh carbonyl clusters in NaY zeolite made basic by treatment with sodium azide: characterization by IR spectroscopy, 29
Rh complexes, new, anchored on silica and modified Y-zeolite as efficient catalysts for hydrogenation of olefins, 369